

**The Genomics of Common Diseases  
6 – 8 September 2017**

**Wellcome Genome Campus  
Hinxton, Cambridge, UK**

**Conference Programme**

---

**Wednesday, 6 September**

13:00 – 14:45 Registration with lunch

14:45 – 15:00 Welcome and Introduction

15:00 – 15:45 **Keynote Lecture**  
Immunogenomics at high resolution  
*Sarah Teichmann*  
*Wellcome Trust Sanger Institute, UK*

15:45 – 16:15 Afternoon Tea

16:15 – 18:00 **Session 1: Identifying novel genes and pathways**

- 16:15 Title tbc  
*John Danesh*  
*UKBB Cambridge, UK*
- 16:40 Realising the power of large prospective biobanks in diverse populations  
*Zhengming Chen*  
*University of Oxford, UK*
- 17:05 Title tbc  
*Ruth Loos*  
*Icahn School of Medicine at Mount Sinai, USA*
- 17:30 Short talk
- 17:45 Short talk

18:00 – 19:00 Drinks Reception

19:00 – 21:00 Dinner

**Thursday, 7 September**

09:00 – 10:45 **Session 2: Regulatory variation of complex human diseases**

- 09:00 Title tbc  
*Barbara Engelhardt*  
*Princeton University, USA*
- 09:25 Induced pluripotent stem cells as models for human diseases  
*Helena Kilpinen*  
*University College London, UK*
- 09:50

*Francois Spitz*  
*Institut Pasteur, France*

10:15 Short talk

10:30 Short talk

10:45 – 11:25 Morning Coffee

11:25 – 13:10 **Session 3: Advances in large-scale functional annotation**

11:25 Non-coding mutations in the 3-Dimensional Genome

*Jim Hughes*

*University of Oxford, UK*

11:50 Insight into blood production from functional follow up of human genetic studies

*Vijay Sankaran*

*Broad Institute, USA*

12:15 Oncogene activation by structural variant-mediated alteration of the cis-regulatory landscape

*Joachim Weischenfeldt*

*BRIC, Denmark*

12:40 Short talk

12:55 Short talk

13:10 – 14:40 Lunch

14:40 – 16:25 **Session 4: Innovative approaches to complex trait analysis**

14:40 Inference on natural selection and genetic (co)variation from large GWAS data

*Peter Visscher*

*University of Queensland, Australia*

15:05 Title tbc

*Hilary Finucane*

*Harvard Chan School, USA*

15:30 Imaging genetics and fine-scale population structure in the UK Biobank

*Jonathan Marchini*

*University of Oxford, UK*

15:55 Short talk

16:10 Short talk

16:25 – 17:05 Afternoon Tea

17:05 – 17:50 **Keynote Lecture**

Using human genetics & genomics to unravel causal mechanisms for diabetes

*Anna Gloyn*

*University of Oxford, UK*

17:50 – 19:20 **Poster session 1 with drinks reception**

19.20 – 21:00 Dinner

## Friday, 8 September

### 09:00 – 10:45 **Session 5: Using human genetics to inform drug development**

- 09:00 Using Human Genetics for Drug Development: the Industry Perspective  
*Caroline Fox*  
*Merck, USA*
- 09:25 Drug Development in the Era of Human Genetically Validated Targets: Case Studies at Amgen  
*Simon Jackson*  
*Amgen, USA*
- 09:50 The role of genetic evidence in drug discovery and development: past, present and future  
*Robert Scott*  
*GlaxoSmithKline, USA*
- 10:15 Short talk
- 10:30 Short talk

10:45 – 11:25 Morning Coffee

### 11:25 – 13:10 **Session 6: Bringing genomics into clinical use**

- 11:25 Germline genetic testing for cancer: risk prediction to therapy  
*Susan Domchek*  
*University of Pennsylvania, USA*
- 11:50 Title tbc  
*Pui Kwok*  
*UCSF, USA*
- 12:15 Integrating Omics with Clinical Outcomes  
*Claudia Langenberg*  
*MRC Cambridge, UK*
- 12:40 Short talk
- 12:55 Short talk

13:10 – 14:40 Lunch

### 14:40 – 16:25 **Session 6: continued**

- 14:40 Short talk
- 15:05 Precision oncology for acute myeloid leukemia using a knowledge bank approach  
*Moritz Gerstung*  
*EMBL-EBI, UK*
- 15:30 Coding and noncoding cancer mutations  
*Nuria Lopez-Bigas*  
*Institute for Research in Medicine, Spain*
- 15:55 Short talk
- 16:10 Short talk

16:25 – 17:05 Afternoon Tea

17:05 – 17:50 **Keynote Lecture**

Common diseases, related physiologic functions and the effects of  
common and rare variants on both

*Kari Stefansson*  
*deCODE genetics, USA*

17:50 – 19:20 **Poster session 2 with drinks reception**

19.20 – 21:00 Conference Dinner